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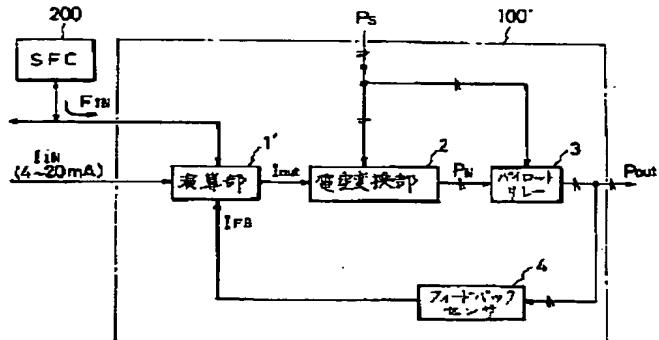
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ABSTRACT : PURPOSE: To correct a characteristic curve based on an actually measured value when the difference between the actually measured value of a controlled system received in online mode and a target value calculated from the built-in characteristic curve is larger than a prescribed value by calculating that difference at the time of correction.

CONSTITUTION: At the time of correction, an operator sets an ultrasonic flow meter, actually measures a process flow rate F and imparts the actually measured value F_{IN} of the process flow rate to an arithmetic part 1' of an electropneumatic positioner 100' in online mode. When the actually measured value F_{IN} is inputted, the arithmetic part 1' reads an input electric signal I_{IN} at that time. At input time, the input electric signal I_{IN} is applied for 50%, a target value F_{OUT} of the process flow rate corresponding to the read input electric signal I_{IN} is calculated according to the built-in characteristic curve, the difference between the target value F_{OUT} and the measured value F_{IN} is calculated and when the difference is more than the fixed value, the built-in characteristic curve is corrected by the arithmetic part 1'. Thus, the accuracy of measurement from a present value at any adjacent position is improved, and the process flow rate F can be controlled with high accuracy.

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